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DENNISON, SCHEINER, SCHULTZ & WAKEMAN
LAW OFFICES
612 CRYSTAL SQUARE 4
1745 JEFFERSON DAVIS HIGHWAY
ARLINGTON, VIRGINIA 22202-3417

703 412-1155

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19. The method of claim 17, wherein said ellagic component is present in a cosmetic composition comprising from

0.01% to 5% by weight of said ellagic component.

20. The method of claim 17, wherein said ellagic component is present in a cosmetic composition comprising from 0.01% to 1% by weight of said ellagic component.

21. The method of claim 17, wherein said ellagic component is present in a cosmetic composition further containing at least one substance selected from the group consisting of a substance which promotes synthesis of at least one extracellular matrix constituent of the of the skin and a substance which regulates the formation of the skin corneal layer.

22. The method of claim 21, wherein said substance is selected from the group consisting of a vitamin, a tocopherol, a xanthine, a retinoid, an extract of Centella asiatica, asiatic acid, madecassic acid, a glycosylated asiatic acid, a glycosylated madecassic acid, an extract of Siegesbeckia orientalis, an extract of Commiphora mukul, an extract of Eriobotrya japonica and a mineral compound.

23. The method of claim 22, wherein said vitamin is selected from the group consisting of a vitamin of group A, an ester of a vitamin of group A, a vitamin of group C and an ester of vitamin of group C; said xanthine is caffeine or theophylline; said retinoid is vitamin A acid; said glycosylated asiatic acid is asiaticoside and said

~~glycosylated madecassic acid is madecassoside.~~

24. The method of claim ²²21, wherein said mineral compound is selected from the group consisting of a magnesium compound, a manganese compound, a silicon compound and a zinc compound.

25. The method of claim 24, wherein said magnesium compound is selected from the group consisting of magnesium chloride and magnesium aspartate, said manganese compound is manganese chloride, and said silicon compound is a silanol.

26. The method of claim 17, wherein said ellagic acid salt is selected from the group consisting of an ellagic acid alkali metal salt, an ellagic acid alkaline earth metal salt, an ellagic acid amine salt, and an ellagic acid amino acid salt.

27. The method of claim 26, wherein said alkali metal is sodium and said alkaline earth metal is calcium, said amine is selected from the group consisting of methylglutamine, diethanolamine, triethanolamine, choline and bis-triethylamine, and said amino acid is a basic amino acid is arginine, lysine or ornitine.

28. The method of claim 17, wherein said ellagic acid metal complex contains a metal selected from the group consisting of zinc and copper.

29. The method of claim 17, wherein the monoacylated and

polyacylated ellagic acid comprises a saturated or unsaturated acyl group having from 2 to 22 carbon atoms.

30. The method of claim 29, wherein said acyl group is an acyl moiety of an acid selected from the group consisting of acetic acid, palmitic acid, oleic acid, linoleic acid, linolenic acid, arachidonic acid, stearic acid, brassidic acid, erucic acid, behenic acid and (all Z)-5,8,11,14,17-eicosapentaenoic acid.

31. The method of claim 17, wherein said ether moiety in the ellagic acid monoether and the ellagic acid polyether is an alkoxy moiety comprising from 1 to 4 carbon atoms.

32. The method of claim 17, wherein said ellagic acid monoether or ellagic acid polyether is a condensation product of at least one ellagic acid hydroxyl group with a sugar.

33. The method of claim 31, wherein said sugar is selected from the group consisting of glucose, arabinose, rhamnose and galactose.

34. The method of claim 17, wherein said ellagic component is selected from the group consisting of 3-methoxyellagic acid, 3-methoxyellagic acid monoether, 3-methoxyellagic acid polyether and a 3-methoxyellagic acid sugar condensation product.

35. The method of claim 17, wherein said ellagic component is present in a composition further comprising at

38. The method of claim 37, wherein said antidandruff agent is selected from the group consisting of an extract of *Arctium lappa*, chloroxylenol, resorcinol and zinc pyrithione;

1. The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as $\epsilon \rightarrow 0$. It is shown that the solutions of the system (1) converge to the solutions of the system (2) as $\epsilon \rightarrow 0$.

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